

MAKE AN ERUPTING LEMON VOLCANO



THINGS ARE GOING TO GET
VERY COLOURFUL,
VERY SMELLY AND
VERY MESSY AROUND HERE!

With just a few ingredients and a helping hand from an adult you'll soon be on your way to stirring up your own lemony, bubbling eruption.

INGREDIENTS:

- 2 lemons.
- Baking Soda.
- Food colouring.
- Stick (to stir things up).
- Knife (for the grown-up).
- Washing up liquid.
- Cup and spoon.
- Tray.

Like learning cool science facts and getting your hands covered in brightly coloured gunk? Great, because we're about to witness the chemical reaction that occurs when combining baking soda with the acid found in lemons.

Lemons contain citric acid. When you mix sodium bicarbonate (otherwise known as baking soda) with citric acid and water a chemical reaction occurs. Sodium citrate and carbon dioxide are formed, resulting in a bubbly concoction.



INSTRUCTIONS:

THE ADULT PART

- Slice off the bottom of one lemon so it can sit on your tray without rolling around. Then turn it over and slice out the core.

THE BEST BIT

- Juice the second lemon into a cup and set aside for later. The more juice you squeeze out, the more eruptions you can make.
- Sit your cored lemon on your tray.
- Squish up the inside of the lemon using your stick to make it extra juicy. (Make sure the juice stays inside the lemon as you need it for the chemical reaction!)
- Pour a few drops of food colouring and washing up liquid into the centre of your lemon.
- Add a spoonful of baking soda into the centre.
- Use your stick to stir the mixture inside the lemon and watch it foam and fizz the more you stir!
- Keep the eruption alive by adding more baking soda, washing up liquid, food colouring and some of the lemon juice you prepared earlier.